

Global Absolute Rotary Encoder(Grating) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Absolute Rotary Encoder(Grating) market size was valued at US\$ 38.37 million in 2025 and is forecast to a readjusted size of US\$ 54.04 million by 2032 with a CAGR of 5.0% during review period.

In 2025, global production of absolute rotary encoder(grating) reached 16,340 units, with an average selling price of US\$2,282 per unit. An absolute rotary encoder(grating) refers to an angle measurement/position feedback device centered on a circular grating scale (disc/ring markings or absolute code tracks) + reading head. It outputs a "unique code of the current position," thus directly providing the absolute angular position of the axis after power failure and re-energization (without needing to return to zero). Applications include CNC machine tools and rotary tables, robot joints and servo motor feedback, semiconductor manufacturing and testing equipment, precision measuring machines/CMMs, and ultra-precision machining equipment. The upstream of the industry chain includes substrates (glass/low-expansion materials/stainless steel strip), consumables for photolithography/etching or laser direct writing processes (photoresist, developing/etching chemicals), precision coating and surface treatment, and high-precision testing and calibration equipment (roundness, engraving error, thermal stability); the midstream is the manufacturing and calibration of circular gratings; the downstream enters angle encoder/rotary encoder manufacturers and motion control system integrators, ultimately selling to OEMs of machine tools, robots, semiconductor equipment, measuring machines, etc. Gross profit margin is approximately 25%–50%.

This report is a detailed and comprehensive analysis for global Absolute Rotary Encoder(Grating) market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Absolute Rotary Encoder(Grating) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Absolute Rotary Encoder(Grating) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Absolute Rotary Encoder(Grating) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Absolute Rotary Encoder(Grating) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Absolute Rotary Encoder(Grating)
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Absolute Rotary Encoder(Grating) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Renishaw, Zeiss, RLS, Precilec, LAMOTION, Agico Technology (Shenzhen), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Absolute Rotary Encoder(Grating) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Absolute UHV Rotary Encoder(Grating)

Absolute ETR Rotary Encoder(Grating)

Market segment by Encoding Method

Single-Turn Absolute

Multi-Turn Absolute

Market segment by Application

CNC Machine Tool

Robot

Semiconductor Equipments

Others

Major players covered

Renishaw

Zeiss

RLS

Precilec

LAMOTION

Agico Technology (Shenzhen)

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Absolute Rotary Encoder(Grating) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Absolute Rotary Encoder(Grating), with price, sales quantity, revenue, and global market share of Absolute Rotary Encoder(Grating) from 2021 to 2026.

Chapter 3, the Absolute Rotary Encoder(Grating) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Absolute Rotary Encoder(Grating) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Absolute Rotary Encoder(Grating) market forecast, by regions, by Type,

and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Absolute Rotary Encoder(Grating).

Chapter 14 and 15, to describe Absolute Rotary Encoder(Grating) sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Absolute Rotary Encoder(Grating) Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Absolute UHV Rotary Encoder(Grating)

1.3.3 Absolute ETR Rotary Encoder(Grating)

1.4 Market Analysis by Encoding Method

1.4.1 Overview: Global Absolute Rotary Encoder(Grating) Consumption Value by Encoding Method: 2021 Versus 2025 Versus 2032

1.4.2 Single-Turn Absolute

1.4.3 Multi-Turn Absolute

1.5 Market Analysis by Application

1.5.1 Overview: Global Absolute Rotary Encoder(Grating) Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 CNC Machine Tool

1.5.3 Robot

1.5.4 Semiconductor Equipments

1.5.5 Others

1.6 Global Absolute Rotary Encoder(Grating) Market Size & Forecast

1.6.1 Global Absolute Rotary Encoder(Grating) Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Absolute Rotary Encoder(Grating) Sales Quantity (2021-2032)

1.6.3 Global Absolute Rotary Encoder(Grating) Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Renishaw

2.1.1 Renishaw Details

2.1.2 Renishaw Major Business

2.1.3 Renishaw Absolute Rotary Encoder(Grating) Product and Services

2.1.4 Renishaw Absolute Rotary Encoder(Grating) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Renishaw Recent Developments/Updates

2.2 Zeiss

- 2.2.1 Zeiss Details
- 2.2.2 Zeiss Major Business
- 2.2.3 Zeiss Absolute Rotary Encoder(Grating) Product and Services
- 2.2.4 Zeiss Absolute Rotary Encoder(Grating) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Zeiss Recent Developments/Updates
- 2.3 RLS
 - 2.3.1 RLS Details
 - 2.3.2 RLS Major Business
 - 2.3.3 RLS Absolute Rotary Encoder(Grating) Product and Services
 - 2.3.4 RLS Absolute Rotary Encoder(Grating) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 RLS Recent Developments/Updates
- 2.4 Precilec
 - 2.4.1 Precilec Details
 - 2.4.2 Precilec Major Business
 - 2.4.3 Precilec Absolute Rotary Encoder(Grating) Product and Services
 - 2.4.4 Precilec Absolute Rotary Encoder(Grating) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Precilec Recent Developments/Updates
- 2.5 LAMOTION
 - 2.5.1 LAMOTION Details
 - 2.5.2 LAMOTION Major Business
 - 2.5.3 LAMOTION Absolute Rotary Encoder(Grating) Product and Services
 - 2.5.4 LAMOTION Absolute Rotary Encoder(Grating) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 LAMOTION Recent Developments/Updates
- 2.6 Agico Technology (Shenzhen)
 - 2.6.1 Agico Technology (Shenzhen) Details
 - 2.6.2 Agico Technology (Shenzhen) Major Business
 - 2.6.3 Agico Technology (Shenzhen) Absolute Rotary Encoder(Grating) Product and Services
 - 2.6.4 Agico Technology (Shenzhen) Absolute Rotary Encoder(Grating) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Agico Technology (Shenzhen) Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ABSOLUTE ROTARY ENCODER(GRATING) BY MANUFACTURER

- 3.1 Global Absolute Rotary Encoder(Grating) Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Absolute Rotary Encoder(Grating) Revenue by Manufacturer (2021-2026)
- 3.3 Global Absolute Rotary Encoder(Grating) Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Absolute Rotary Encoder(Grating) by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Absolute Rotary Encoder(Grating) Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Absolute Rotary Encoder(Grating) Manufacturer Market Share in 2025
- 3.5 Absolute Rotary Encoder(Grating) Market: Overall Company Footprint Analysis
 - 3.5.1 Absolute Rotary Encoder(Grating) Market: Region Footprint
 - 3.5.2 Absolute Rotary Encoder(Grating) Market: Company Product Type Footprint
 - 3.5.3 Absolute Rotary Encoder(Grating) Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Absolute Rotary Encoder(Grating) Market Size by Region
 - 4.1.1 Global Absolute Rotary Encoder(Grating) Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Absolute Rotary Encoder(Grating) Consumption Value by Region (2021-2032)
 - 4.1.3 Global Absolute Rotary Encoder(Grating) Average Price by Region (2021-2032)
- 4.2 North America Absolute Rotary Encoder(Grating) Consumption Value (2021-2032)
- 4.3 Europe Absolute Rotary Encoder(Grating) Consumption Value (2021-2032)
- 4.4 Asia-Pacific Absolute Rotary Encoder(Grating) Consumption Value (2021-2032)
- 4.5 South America Absolute Rotary Encoder(Grating) Consumption Value (2021-2032)
- 4.6 Middle East & Africa Absolute Rotary Encoder(Grating) Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Absolute Rotary Encoder(Grating) Sales Quantity by Type (2021-2032)
- 5.2 Global Absolute Rotary Encoder(Grating) Consumption Value by Type (2021-2032)
- 5.3 Global Absolute Rotary Encoder(Grating) Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Absolute Rotary Encoder(Grating) Sales Quantity by Application (2021-2032)
- 6.2 Global Absolute Rotary Encoder(Grating) Consumption Value by Application (2021-2032)
- 6.3 Global Absolute Rotary Encoder(Grating) Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Absolute Rotary Encoder(Grating) Sales Quantity by Type (2021-2032)
- 7.2 North America Absolute Rotary Encoder(Grating) Sales Quantity by Application (2021-2032)
- 7.3 North America Absolute Rotary Encoder(Grating) Market Size by Country
 - 7.3.1 North America Absolute Rotary Encoder(Grating) Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Absolute Rotary Encoder(Grating) Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Absolute Rotary Encoder(Grating) Sales Quantity by Type (2021-2032)
- 8.2 Europe Absolute Rotary Encoder(Grating) Sales Quantity by Application (2021-2032)
- 8.3 Europe Absolute Rotary Encoder(Grating) Market Size by Country
 - 8.3.1 Europe Absolute Rotary Encoder(Grating) Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Absolute Rotary Encoder(Grating) Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Absolute Rotary Encoder(Grating) Market Size by Region

9.3.1 Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Absolute Rotary Encoder(Grating) Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Absolute Rotary Encoder(Grating) Sales Quantity by Type (2021-2032)

10.2 South America Absolute Rotary Encoder(Grating) Sales Quantity by Application (2021-2032)

10.3 South America Absolute Rotary Encoder(Grating) Market Size by Country

10.3.1 South America Absolute Rotary Encoder(Grating) Sales Quantity by Country (2021-2032)

10.3.2 South America Absolute Rotary Encoder(Grating) Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Absolute Rotary Encoder(Grating) Market Size by Country

11.3.1 Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Absolute Rotary Encoder(Grating) Consumption Value by

Country (2021-2032)

- 11.3.3 Turkey Market Size and Forecast (2021-2032)
- 11.3.4 Egypt Market Size and Forecast (2021-2032)
- 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
- 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Absolute Rotary Encoder(Grating) Market Drivers
- 12.2 Absolute Rotary Encoder(Grating) Market Restraints
- 12.3 Absolute Rotary Encoder(Grating) Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Absolute Rotary Encoder(Grating) and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Absolute Rotary Encoder(Grating)
- 13.3 Absolute Rotary Encoder(Grating) Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Absolute Rotary Encoder(Grating) Typical Distributors
- 14.3 Absolute Rotary Encoder(Grating) Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Absolute Rotary Encoder(Grating) Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Absolute Rotary Encoder(Grating) Consumption Value by Encoding Method, (USD Million), 2021 & 2025 & 2032

Table 3. Global Absolute Rotary Encoder(Grating) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Renishaw Basic Information, Manufacturing Base and Competitors

Table 5. Renishaw Major Business

Table 6. Renishaw Absolute Rotary Encoder(Grating) Product and Services

Table 7. Renishaw Absolute Rotary Encoder(Grating) Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Renishaw Recent Developments/Updates

Table 9. Zeiss Basic Information, Manufacturing Base and Competitors

Table 10. Zeiss Major Business

Table 11. Zeiss Absolute Rotary Encoder(Grating) Product and Services

Table 12. Zeiss Absolute Rotary Encoder(Grating) Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Zeiss Recent Developments/Updates

Table 14. RLS Basic Information, Manufacturing Base and Competitors

Table 15. RLS Major Business

Table 16. RLS Absolute Rotary Encoder(Grating) Product and Services

Table 17. RLS Absolute Rotary Encoder(Grating) Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. RLS Recent Developments/Updates

Table 19. Precilec Basic Information, Manufacturing Base and Competitors

Table 20. Precilec Major Business

Table 21. Precilec Absolute Rotary Encoder(Grating) Product and Services

Table 22. Precilec Absolute Rotary Encoder(Grating) Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Precilec Recent Developments/Updates

Table 24. LAMOTION Basic Information, Manufacturing Base and Competitors

Table 25. LAMOTION Major Business

Table 26. LAMOTION Absolute Rotary Encoder(Grating) Product and Services

Table 27. LAMOTION Absolute Rotary Encoder(Grating) Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 28. LAMOTION Recent Developments/Updates

Table 29. Agico Technology (Shenzhen) Basic Information, Manufacturing Base and Competitors

Table 30. Agico Technology (Shenzhen) Major Business

Table 31. Agico Technology (Shenzhen) Absolute Rotary Encoder(Grating) Product and Services

Table 32. Agico Technology (Shenzhen) Absolute Rotary Encoder(Grating) Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. Agico Technology (Shenzhen) Recent Developments/Updates

Table 34. Global Absolute Rotary Encoder(Grating) Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 35. Global Absolute Rotary Encoder(Grating) Revenue by Manufacturer (2021-2026) & (USD Million)

Table 36. Global Absolute Rotary Encoder(Grating) Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 37. Market Position of Manufacturers in Absolute Rotary Encoder(Grating), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 38. Head Office and Absolute Rotary Encoder(Grating) Production Site of Key Manufacturer

Table 39. Absolute Rotary Encoder(Grating) Market: Company Product Type Footprint

Table 40. Absolute Rotary Encoder(Grating) Market: Company Product Application Footprint

Table 41. Absolute Rotary Encoder(Grating) New Market Entrants and Barriers to Market Entry

Table 42. Absolute Rotary Encoder(Grating) Mergers, Acquisition, Agreements, and Collaborations

Table 43. Global Absolute Rotary Encoder(Grating) Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 44. Global Absolute Rotary Encoder(Grating) Sales Quantity by Region (2021-2026) & (Units)

Table 45. Global Absolute Rotary Encoder(Grating) Sales Quantity by Region (2027-2032) & (Units)

Table 46. Global Absolute Rotary Encoder(Grating) Consumption Value by Region (2021-2026) & (USD Million)

Table 47. Global Absolute Rotary Encoder(Grating) Consumption Value by Region (2027-2032) & (USD Million)

Table 48. Global Absolute Rotary Encoder(Grating) Average Price by Region

(2021-2026) & (US\$/Unit)

Table 49. Global Absolute Rotary Encoder(Grating) Average Price by Region

(2027-2032) & (US\$/Unit)

Table 50. Global Absolute Rotary Encoder(Grating) Sales Quantity by Type

(2021-2026) & (Units)

Table 51. Global Absolute Rotary Encoder(Grating) Sales Quantity by Type

(2027-2032) & (Units)

Table 52. Global Absolute Rotary Encoder(Grating) Consumption Value by Type

(2021-2026) & (USD Million)

Table 53. Global Absolute Rotary Encoder(Grating) Consumption Value by Type

(2027-2032) & (USD Million)

Table 54. Global Absolute Rotary Encoder(Grating) Average Price by Type (2021-2026)
& (US\$/Unit)

Table 55. Global Absolute Rotary Encoder(Grating) Average Price by Type (2027-2032)
& (US\$/Unit)

Table 56. Global Absolute Rotary Encoder(Grating) Sales Quantity by Application
(2021-2026) & (Units)

Table 57. Global Absolute Rotary Encoder(Grating) Sales Quantity by Application
(2027-2032) & (Units)

Table 58. Global Absolute Rotary Encoder(Grating) Consumption Value by Application
(2021-2026) & (USD Million)

Table 59. Global Absolute Rotary Encoder(Grating) Consumption Value by Application
(2027-2032) & (USD Million)

Table 60. Global Absolute Rotary Encoder(Grating) Average Price by Application
(2021-2026) & (US\$/Unit)

Table 61. Global Absolute Rotary Encoder(Grating) Average Price by Application
(2027-2032) & (US\$/Unit)

Table 62. North America Absolute Rotary Encoder(Grating) Sales Quantity by Type
(2021-2026) & (Units)

Table 63. North America Absolute Rotary Encoder(Grating) Sales Quantity by Type
(2027-2032) & (Units)

Table 64. North America Absolute Rotary Encoder(Grating) Sales Quantity by
Application (2021-2026) & (Units)

Table 65. North America Absolute Rotary Encoder(Grating) Sales Quantity by
Application (2027-2032) & (Units)

Table 66. North America Absolute Rotary Encoder(Grating) Sales Quantity by Country
(2021-2026) & (Units)

Table 67. North America Absolute Rotary Encoder(Grating) Sales Quantity by Country
(2027-2032) & (Units)

Table 68. North America Absolute Rotary Encoder(Grating) Consumption Value by Country (2021-2026) & (USD Million)

Table 69. North America Absolute Rotary Encoder(Grating) Consumption Value by Country (2027-2032) & (USD Million)

Table 70. Europe Absolute Rotary Encoder(Grating) Sales Quantity by Type (2021-2026) & (Units)

Table 71. Europe Absolute Rotary Encoder(Grating) Sales Quantity by Type (2027-2032) & (Units)

Table 72. Europe Absolute Rotary Encoder(Grating) Sales Quantity by Application (2021-2026) & (Units)

Table 73. Europe Absolute Rotary Encoder(Grating) Sales Quantity by Application (2027-2032) & (Units)

Table 74. Europe Absolute Rotary Encoder(Grating) Sales Quantity by Country (2021-2026) & (Units)

Table 75. Europe Absolute Rotary Encoder(Grating) Sales Quantity by Country (2027-2032) & (Units)

Table 76. Europe Absolute Rotary Encoder(Grating) Consumption Value by Country (2021-2026) & (USD Million)

Table 77. Europe Absolute Rotary Encoder(Grating) Consumption Value by Country (2027-2032) & (USD Million)

Table 78. Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity by Type (2021-2026) & (Units)

Table 79. Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity by Type (2027-2032) & (Units)

Table 80. Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity by Application (2021-2026) & (Units)

Table 81. Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity by Application (2027-2032) & (Units)

Table 82. Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity by Region (2021-2026) & (Units)

Table 83. Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity by Region (2027-2032) & (Units)

Table 84. Asia-Pacific Absolute Rotary Encoder(Grating) Consumption Value by Region (2021-2026) & (USD Million)

Table 85. Asia-Pacific Absolute Rotary Encoder(Grating) Consumption Value by Region (2027-2032) & (USD Million)

Table 86. South America Absolute Rotary Encoder(Grating) Sales Quantity by Type (2021-2026) & (Units)

Table 87. South America Absolute Rotary Encoder(Grating) Sales Quantity by Type

(2027-2032) & (Units)

Table 88. South America Absolute Rotary Encoder(Grating) Sales Quantity by Application (2021-2026) & (Units)

Table 89. South America Absolute Rotary Encoder(Grating) Sales Quantity by Application (2027-2032) & (Units)

Table 90. South America Absolute Rotary Encoder(Grating) Sales Quantity by Country (2021-2026) & (Units)

Table 91. South America Absolute Rotary Encoder(Grating) Sales Quantity by Country (2027-2032) & (Units)

Table 92. South America Absolute Rotary Encoder(Grating) Consumption Value by Country (2021-2026) & (USD Million)

Table 93. South America Absolute Rotary Encoder(Grating) Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity by Type (2021-2026) & (Units)

Table 95. Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity by Type (2027-2032) & (Units)

Table 96. Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity by Application (2021-2026) & (Units)

Table 97. Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity by Application (2027-2032) & (Units)

Table 98. Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity by Country (2021-2026) & (Units)

Table 99. Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity by Country (2027-2032) & (Units)

Table 100. Middle East & Africa Absolute Rotary Encoder(Grating) Consumption Value by Country (2021-2026) & (USD Million)

Table 101. Middle East & Africa Absolute Rotary Encoder(Grating) Consumption Value by Country (2027-2032) & (USD Million)

Table 102. Absolute Rotary Encoder(Grating) Raw Material

Table 103. Key Manufacturers of Absolute Rotary Encoder(Grating) Raw Materials

Table 104. Absolute Rotary Encoder(Grating) Typical Distributors

Table 105. Absolute Rotary Encoder(Grating) Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Absolute Rotary Encoder(Grating) Picture

Figure 2. Global Absolute Rotary Encoder(Grating) Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Absolute Rotary Encoder(Grating) Revenue Market Share by Type in 2025

Figure 4. Absolute UHV Rotary Encoder(Grating) Examples

Figure 5. Absolute ETR Rotary Encoder(Grating) Examples

Figure 6. Global Absolute Rotary Encoder(Grating) Revenue by Encoding Method, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Absolute Rotary Encoder(Grating) Revenue Market Share by Encoding Method in 2025

Figure 8. Single-Turn Absolute Examples

Figure 9. Multi-Turn Absolute Examples

Figure 10. Global Absolute Rotary Encoder(Grating) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 11. Global Absolute Rotary Encoder(Grating) Revenue Market Share by Application in 2025

Figure 12. CNC Machine Tool Examples

Figure 13. Robot Examples

Figure 14. Semiconductor Equipments Examples

Figure 15. Others Examples

Figure 16. Global Absolute Rotary Encoder(Grating) Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 17. Global Absolute Rotary Encoder(Grating) Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 18. Global Absolute Rotary Encoder(Grating) Sales Quantity (2021-2032) & (Units)

Figure 19. Global Absolute Rotary Encoder(Grating) Price (2021-2032) & (US\$/Unit)

Figure 20. Global Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Manufacturer in 2025

Figure 21. Global Absolute Rotary Encoder(Grating) Revenue Market Share by Manufacturer in 2025

Figure 22. Producer Shipments of Absolute Rotary Encoder(Grating) by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 23. Top 3 Absolute Rotary Encoder(Grating) Manufacturer (Revenue) Market

Share in 2025

Figure 24. Top 6 Absolute Rotary Encoder(Grating) Manufacturer (Revenue) Market Share in 2025

Figure 25. Global Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Region (2021-2032)

Figure 26. Global Absolute Rotary Encoder(Grating) Consumption Value Market Share by Region (2021-2032)

Figure 27. North America Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 28. Europe Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 29. Asia-Pacific Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 30. South America Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 31. Middle East & Africa Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 32. Global Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Type (2021-2032)

Figure 33. Global Absolute Rotary Encoder(Grating) Consumption Value Market Share by Type (2021-2032)

Figure 34. Global Absolute Rotary Encoder(Grating) Average Price by Type (2021-2032) & (US\$/Unit)

Figure 35. Global Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Application (2021-2032)

Figure 36. Global Absolute Rotary Encoder(Grating) Revenue Market Share by Application (2021-2032)

Figure 37. Global Absolute Rotary Encoder(Grating) Average Price by Application (2021-2032) & (US\$/Unit)

Figure 38. North America Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Type (2021-2032)

Figure 39. North America Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Application (2021-2032)

Figure 40. North America Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Country (2021-2032)

Figure 41. North America Absolute Rotary Encoder(Grating) Consumption Value Market Share by Country (2021-2032)

Figure 42. United States Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

- Figure 43. Canada Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 44. Mexico Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 45. Europe Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Type (2021-2032)
- Figure 46. Europe Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Application (2021-2032)
- Figure 47. Europe Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Country (2021-2032)
- Figure 48. Europe Absolute Rotary Encoder(Grating) Consumption Value Market Share by Country (2021-2032)
- Figure 49. Germany Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 50. France Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 51. United Kingdom Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 52. Russia Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 53. Italy Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 54. Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Type (2021-2032)
- Figure 55. Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Application (2021-2032)
- Figure 56. Asia-Pacific Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Region (2021-2032)
- Figure 57. Asia-Pacific Absolute Rotary Encoder(Grating) Consumption Value Market Share by Region (2021-2032)
- Figure 58. China Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 59. Japan Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 60. South Korea Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 61. India Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)
- Figure 62. Southeast Asia Absolute Rotary Encoder(Grating) Consumption Value

(2021-2032) & (USD Million)

Figure 63. Australia Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 64. South America Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Type (2021-2032)

Figure 65. South America Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Application (2021-2032)

Figure 66. South America Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Country (2021-2032)

Figure 67. South America Absolute Rotary Encoder(Grating) Consumption Value Market Share by Country (2021-2032)

Figure 68. Brazil Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 69. Argentina Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 70. Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Type (2021-2032)

Figure 71. Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Application (2021-2032)

Figure 72. Middle East & Africa Absolute Rotary Encoder(Grating) Sales Quantity Market Share by Country (2021-2032)

Figure 73. Middle East & Africa Absolute Rotary Encoder(Grating) Consumption Value Market Share by Country (2021-2032)

Figure 74. Turkey Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 75. Egypt Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 76. Saudi Arabia Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 77. South Africa Absolute Rotary Encoder(Grating) Consumption Value (2021-2032) & (USD Million)

Figure 78. Absolute Rotary Encoder(Grating) Market Drivers

Figure 79. Absolute Rotary Encoder(Grating) Market Restraints

Figure 80. Absolute Rotary Encoder(Grating) Market Trends

Figure 81. Porters Five Forces Analysis

Figure 82. Manufacturing Cost Structure Analysis of Absolute Rotary Encoder(Grating) in 2025

Figure 83. Manufacturing Process Analysis of Absolute Rotary Encoder(Grating)

Figure 84. Absolute Rotary Encoder(Grating) Industrial Chain

Figure 85. Sales Channel: Direct to End-User vs Distributors

Figure 86. Direct Channel Pros & Cons

Figure 87. Indirect Channel Pros & Cons

Figure 88. Methodology

Figure 89. Research Process and Data Source

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